

WHAT IS CLAIMED IS:

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a'
1. A polarizer comprising a reflection type polarizer
and a dichroic polarizer, each of which is placed so that
polarizing transmission axes of said reflection type polarizer
5 and said dichroic polarizer are coincident with each other
on the same optical path, wherein the dichroic polarizer has
a transmittance $[T(AP)(\lambda)]$ of about 44% or more and a polarizing
coefficient $[P(AP)(\lambda)]$ of about 50.0% or more.

2. A polarizer comprising a reflection type polarizer
10 and a dichroic polarizer, each of which is placed so that
polarizing transmission axes of said reflection type polarizer
and said dichroic polarizer are coincident with each other
on the same optical path, wherein the dichroic polarizer has
a luminous correction transmittance $[Y(AP)]$ of about 44% or
15 more and a luminous correction polarizing coefficient $[P(AP,$
 $y)]$ of about 50.0% or more.

3. The polarizer according to claim 1 or 2, wherein
the dichroic polarizer is an iodine-based polarizing film.

4. The polarizer according to claim 1 or 2, wherein
20 the dichroic polarizer is a dye-based polarizing film.

5. The polarizer according to claim 1 or 2,
wherein the reflection type polarizer is a multi-layered
element comprising two or more kinds of polymer films.

6. The polarizer according to claim 1 or 2.
25 wherein the reflection type polarizer is a polymer film

consisting of continuous polymer matrix with droplets dispersed therein which is made from two or more kinds of polymers.

7. The polarizer according to claim 1 or 2.

5 wherein the reflection type polarizer is a polarizer comprising a film having a cholesteric liquid crystal and a quarter wavelength film.

8. The polarizer according to claim 1 or 2.

10 wherein the reflection type polarizer and the dichroic polarizer are bonded to each other through a pressure sensitive adhesive.

9. The polarizer according to claim 1 or 2.

15 wherein the reflection type polarizer and the dichroic polarizer are bonded to each other through a pressure sensitive adhesive to obtain said polarizer having a luminous correction transmittance $[Y(P)]$ of 42% or more.

10. The polarizer according to claim 1 or 2.

20 wherein the reflection type polarizer and the dichroic polarizer are bonded to each other through a pressure sensitive adhesive to obtain said polarizer having a luminous correction polarizing coefficient $[P(P,Y)]$ of 80% or more.

11. A polarizing light source device comprising, in the following order,

25 (I) the polarizer comprising a reflection type polarizer and a dichroic polarizer, each of which is placed so that polarizing

transmission axes of said reflection type polarizer and said dichroic polarizer are coincident with each other on the same optical path, wherein said dichroic polarizer has

5 i) a transmittance $[T(AP)(\lambda)]$ of about 44% or more and a polarizing coefficient $[P(AP)(\lambda)]$ of about 50.0% or more, or

ii) a luminous correction transmittance $[Y(AP)]$ of about 44% or more and a luminous correction polarizing coefficient $[P(AP, y)]$ of about 50.0% or more,

10 (II) a light source and

(III) a reflector,

wherein the light source (II) and the reflector (III) are placed over the side of surface of the reflection type polarizer in the polarizer (I).

15 12. The polarizing light source device according to claim 11, wherein said device further comprises at least one diffusion sheet between the reflection type polarizer and the light source.

20 13. A polarizing light source device comprising, in the following order,

(I) the polarizer comprising a reflection type polarizer and a dichroic polarizer, each of which is placed so that polarizing transmission axes of said reflection type polarizer and said dichroic polarizer are coincident with each other on the same
25 optical path, wherein said dichroic polarizer has

i) a transmittance $[T(AP)(\lambda)]$ of about 44% or more and a polarizing coefficient $[P(AP)(\lambda)]$ of about 50.0% or more, or

5 ii) a luminous correction transmittance $[Y(AP)]$ of about 44% or more and a luminous correction polarizing coefficient $[P(AP, y)]$ of about 50.0% or more,

(II)' a light transmitting plate having a light source provided on its end and

(III) a reflector,

10 wherein the light transmitting plate (II)' and the reflector (III) are placed over the side of surface of the reflection type polarizer in the polarizer (I).

14. The polarizing light source device according to claim 13, wherein said device further comprises at least one
15 diffusion sheet between the reflection type polarizer and the light transmitting plate.

15. The polarizing light source device according to claim 14, wherein said device further comprises at least one
20 lens sheet between the reflection type polarizer and the diffusion sheet and/or between the diffusion sheet and the light transmitting plate.

16. A liquid crystal display comprising, in the following order, a polarizing light sources device according to claim 11 or 13, a liquid crystal cell and another dichroic
25 polarizer, wherein the liquid crystal cell and the dichroic

polarizer are placed over the side of surface of the dichroic polarizer used in the polarizing light source device.

17. The liquid crystal display according to claim 16, wherein the polarizing light source device and the liquid crystal cell are bonded to each other through a pressure sensitive adhesive.

18. The liquid crystal display according to claim 16, wherein the liquid crystal cell and the dichroic polarizer are bonded to each other through a pressure sensitive adhesive.

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